

1967 JAN 5 01 52Z

TO AIG NINE SEVEN FIVE

BT

~~SECRET~~ CITE NPIC 9486.

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF
AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-940, 3 JAN 66.

((TEXT WHICH FOLLOWED WAS IDENTICAL TO ABOVE CITED MSN G-940)).

-END OF MESSAGE-

5 JAN 1967

1

25X1

GROUP 1
Excluded from automatic
downgrading and
declassification

SECRET

PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION 6-040, 3 JAN 66. THE NUMBER AT THE RIGHT MARGIN OF THE HEADER LINE IS THE CONOR TARGET NUMBER.

SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS--
 C @CLEAR@, SC @SCATTERED CLOUD COVER@, H @HEAVY CLOUD COVER@,
 H @HAZE@, CS @CLOUD SHADOW@, SD @SEMI DARKNESS@, GC @GROUND COVER@, CF @CAMOUFLAGED@, O @OBSCURITY@, AND GR @GROUND RESOLUTION@.

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G @GOOD@, F @FAIR@, OR P @POOR@. THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T @TOTAL@ OR PT @PARTIAL@. THE MODE OF COVERAGE IS SIGNIFIED BY ST @STEREO@, NS @NONSTEREO@, OR PS @PARTIAL STEREO@.

AAA DEFENSES ARE DIVIDED INTO THREE BASIC CATEGORIES -- LIGHT @ZPU-2, ZPU-4, AND 37MM@, MEDIUM @57MM AND 85MM@, AND HEAVY @100MM AND LARGER@. WHERE SUCH A CATEGORY CANNOT BE DETERMINED, THE SITE WILL BE LISTED AS AN AAA SITE AND THE NUMBER OF GUNS INDICATED @EXAMPLE 6-GUN AAA SITE, OCCUPIED/UNOCCUPIED@.

ITEMS OF SPECIAL INTEREST

SIX PREVIOUSLY REPORTED SAMLET TRANSPORTERS NO LONGER LOCATED AT WEST END OF RUNWAY AT MARIEL NAVAL BASE AND NAVAL AIR STATION. MALDONADO SAM SITE VACATED. CONSTRUCTION COMPLETE AT LA MAYA SAM SITE AND SITE NOW OCCUPIED.

MISSILES

ALQUIZAR SAM SITE A30-2 CU 2249N 08238W

OB -- 6 EMPLACED LAUNCHERS @3 WITH MISSILES@, 10 CANVAS-COVERED MISSILE TRANSPORTERS, A GUIDANCE RADAR WITH 6 ASSOCIATED VAN TRAILERS, AND 3 CARGO TRUCKS. ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES. NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

CAMPO FLORIDO SAM SITE A07-2 CU 2309N 08202W
 SITE REMAINS OCCUPIED.
 OBLIQUITY LIMITS INTERPRETATION.

25X1

GUARA SAM SITE A29-2 CU 2248N 08213W

OB -- 6 EMPLACED LAUNCHERS @3 WITH MISSILES@, 11 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, 1 TRUCK-MOUNTED CRANE, AND 7 OTHER VEHICLES. ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES. NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

HOLGUIN SAM SITE B27-2 CU 2052N 07627W

OB -- 6 EMPLACED LAUNCHERS @3 WITH MISSILES, 1 BEING LOADED/UNLOADED@, 1 ADDITIONAL EMPLACED LAUNCHER ADJACENT TO SITE, 10 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, 1 CARGO TRUCK, 1 VAN TRUCK, 1 TRUCK-MOUNTED CRANE, AND 1 ADDITIONAL VAN TRAILER. ACTIVITY -- 2 OCCUPIED 6-GUN MEDIUM AAA SITES. NO APPARENT CHANGE IN LAUNCH FACILITIES. SUPPORT FACILITIES CONSIST OF 4 BARRACKS, 2 LARGE SUPPORT BUILDINGS, AND AT LEAST 3 SMALLER SUPPORT BUILDINGS.

25X1

HOLGUIN AIRFIELD SAM SITE CU 2046N 07619W

OB -- 6 EMPLACED LAUNCHERS @2 WITH MISSILES@, 8 MISSILE TRANSPORTERS @3 WITH MISSILES@, AND A FAN SONG RADAR WITH CANVAS-COVERED EQUIPMENT. NO APPARENT

LA CACHIMBA SAM SITE A04-2 CU 2253N 07224W
OB -- 6 EMPLACED LAUNCHERS, 7 MISSILE TRANSPORTERS, A
CENTRAL GUIDANCE RADAR WITH ASSOCIATED EQUIPMENT, A
PROBABLE ACQUISITION RADAR, AND 15 OTHER VEHICLES.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE AND 2 OCCUPIED
3-GUN AAA SITES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

LA SALUD SAM SITE A04-2 CU 2253N 07224W
OB -- 2 EMPLACED LAUNCHERS 01 WITH MISSILES AND 4
MISSILE TRANSPORTERS WITH EXPOSED MISSILES OBSERVED IN
CLOUD-FREE AREAS.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.

25X1

MALDONADO SAM SITE A18-2 CU 2012N 07528W
LAUNCH AREA IS VACATED. ONLY 6 TRACKED PRIME MOVERS IN
A LARGE REVETMENT ADJACENT TO SITE REMAIN IN AREA.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

MARIEL SAM SITE 2 A30-2 CU 2300N 08248W
OB -- 6 EMPLACED LAUNCHERS 02 WITH MISSILES, 13
MISSILE TRANSPORTERS 010 WITH EXPOSED MISSILES, A FAN
SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, 8 TRACKED
PRIME MOVERS, 10 CARGO TRUCKS, AND 4 CARGO TRAILERS.
ACTIVITY -- 1 OCCUPIED 3-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

SANTIAGO DE CUBA SAM SITE A23-2 CU 1959N 07550W
OB -- 6 EMPLACED LAUNCHERS, 6 MISSILE TRANSPORTERS, AN
OCCUPIED GUIDANCE AREA, AND 6 OTHER VEHICLES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

SANTIAGO DE CUBA SAM ASSEMBLY AREA CU 2004N 07553W
OB -- 5 MISSILE TRANSPORTERS, 02 WITH EXPOSED
MISSILES, NUMEROUS MISSILE CANISTERS, 1 CANISTER
TRANSPORTER, 3 ZIL-157V TRUCK TRACTORS, 5 CARGO TRUCKS,
1 TRACTOR-TRAILER TRUCK, AND 2 CARGO TRAILERS.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN FACILITIES.

25X1

PALMA SORIANO SAM SITE A02-2 CU 2015N 07559W
OB -- 6 EMPLACED LAUNCHERS, 9 MISSILE TRANSPORTERS, AND
A FAN SONG RADAR WITH CANVAS-COVERED EQUIPMENT.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

LA VEGUITA SAM ASSEMBLY AREA CU 2049N 07615W
OB -- 2 MISSILE TRANSPORTERS WITHOUT PRIME MOVERS,
NUMEROUS MISSILE CANISTERS, 5 CANISTER TRANSPORTERS, 5
ZIL-157V TRUCK TRACTORS, 8 CARGO TRUCKS, AND 18 OTHER
VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

SAN PEDRO DE CACOCUM SAM SITE 1 CU 2047N 07615W
SITE IS ABANDONED.
SUPPORT FACILITIES ARE DISMANTLED AND NO
VEHICLES/PIECES OF EQUIPMENT OBSERVED.

25X1

SAN PEDRO DE CACOCUM SAM SITE 2 CU 2045N 07615W
OB -- 6 EMPLACED LAUNCHERS 05 WITH MISSILES, 10
MISSILE TRANSPORTERS 06 WITH EXPOSED MISSILES, A FAN
SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, AND A
TRUCK-MOUNTED SPOON REST RADAR WITH 1 ASSOCIATED VAN
TRAILER.
ACTIVITY --

25X1

LA MAYA SAN SITE CU 2014N 07540W
PERMANENT SITE IS COMPLETED AND NOW OCCUPIED.
OB -- 6 EMPLACED LAUNCHERS 03 WITH MISSILES, 6 MISSILE
TRANSPORTERS, 1 FAN SONG RADAR WITH 6 ASSOCIATED VAN
TRAILERS, AN ACQUISITION RADAR, 6 CARGO TRUCKS, 1 VAN
TRUCK, 3 ADDITIONAL VAN TRAILERS, AND 5 OTHER
VEHICLES/PIECES OF EQUIPMENT.

25X1

AIR FACILITIES

CAMILO CIENFUEGOS AIRFIELD CU 2229N 07956W
OB -- 3 PROBABLE FAGOT/FRESCO OBSERVED IN CLOUD-FREE
AREAS.

25X1

CAMAGUEY INTERNATIONAL AIRFIELD CU 2125N 07750W
OB -- 2 C-47, 1 CRATE, AND 19 HOUND.

25X1

HOLGUIN AIRFIELD CU 2047N 07618W
OB -- 10 FAGOT/FRESCO.

25X1

P-3 ANTONIO MACEO AIRFIELD CU 1958N 07550W
OB -- 3 LIAISON AND 1 HOUND.

25X1

CORONEL PASCUAL AIRFIELD CU 2307N 08117W
OB -- NONE OBSERVED.

25X1

JOSE MARTI INTERNATIONAL AIRFIELD CU 2259N 08224W
OB OPERATIONS AREA -- 1 CLEAT, 2 BRITANNIA, 3 COOT, 1
CUB, 2 COKE, 5 CRATE, 2 C-46, 1 C-47, AND 6 LIAISON.
OB MAINTENANCE AREA -- 2 COKE, 7 CRATE, AND 6 MORAVA
1-200.

25X1

JAIME GONZALES AIRFIELD CU 2209N 08024W
OB -- 1 COOT WITHOUT OUTER WING PANELS.

25X1

NAVAL ACTIVITY/PORTS

MARIEL NAVAL BASE AND NAVAL AIR STATION CU 2259N 08244W
OB -- 1 PF, 1 PROBABLE MODIFIED PF, 2 KRONSTADT-CLASS
PC, 1 PROBABLE KRONSTADT-CLASS PC IN DRYDOCK, AND 4
S.O.1-CLASS SC.

P-4 OTHER VESSELS -- 1 LARGE FREIGHTER.
ACTIVITY -- 6 PREVIOUSLY REPORTED SAMLET TRANSPORTERS
ARE NO LONGER AT WEST END OF RUNWAY.

25X1

CABANAS NAVAL BASE CU 2258N 08258W
OB -- 9 KOMAR-CLASS PTG.
OTHER VESSELS -- NONE OBSERVED.

25X1

CIENFUEGOS NAVAL BASE CU 2208N 08027W
OB -- 2 KRONSTADT-CLASS PC, 8 P-6-CLASS PT, AND 4 YP.
OTHER VESSELS -- 2 LARGE FREIGHTERS.

25X1

SANTIAGO DE CUBA NAVAL BASE AND PORT CU 2001N 07550W
OB -- 1 YP.
OTHER VESSELS -- 5 LARGE FREIGHTERS AND 1 LARGE TANKER.

25X1

MANZANILLO PORT CU 2021N 07707W
VESSELS -- NONE OBSERVED.

25X1

NUEVITAS PORT CU 2132N 07715W
P-5 VESSELS -- 3 LARGE FREIGHTERS AND 2 LARGE TANKERS.

25X1

VESSELS -- 1 LARGE FREIGHTER.

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25X1

CASILDA PORT CU 2145N 07959W

VESSELS -- 1 FREIGHTER.

25X1

MATANZAS PORT CU 2302N 08134E

VESSELS -- 1 COASTAL FREIGHTER.

25X1

SURGIDERO DE BATABANO PORT CU 2241N 08217W

VESSELS -- NONE OBSERVED.

25X1

LA HABANA PORT FACILITIES CU 2307N 08220W

OB -- 1 PROBABLE KRONSTADT-CLASS PC.

OTHER VESSELS -- 20 LARGE FREIGHTERS, 7 COASTAL FREIGHTERS, 2 LARGE TANKERS, 13 TRAWLERS, AND 2 FLOATING DRYDOCKS.

25X1

BAHIA HONDA PORT CU 2255N 08310W

VESSELS -- NONE OBSERVED.

25X1

PUNTA BALLENATOS MARINA CU 2305N 08230W

OB -- 6 PROBABLE P-4-CLASS PT.

25X1

ELECTRONICS/COMMUNICATIONS

CABO CRUZ LOW SIEVE RADAR SITE CU 1950N 07743E

OB -- 1 LOW SIEVE RADAR.

25X1

MILITARY ACTIVITY

ALTO CEDRO MILITARY CAMP CU 2029N 07600W

OB -- 30 TANKS/SP GUNS, 18 BTR 60-P, 47 FA PIECES, 17 MORTARS, 172 CARGO TRUCKS, 17 VAN TRUCKS, 1 TANK TRUCK, 2 CARGO TRAILERS, AND 15 OTHER VEHICLES.

ACTIVITY -- 2 OCCUPIED 6-GUN MEDIUM AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

25X1

GUANTANAMO AREA CU 2018N 07525W

NO NEW MILITARY ACTIVITY OBSERVED IN CLOUD-FREE AREAS.

AREA 1 -- 20 PERCENT USEABLE COVERAGE.

AREA 2 -- 30 PERCENT USEABLE COVERAGE.

AREAS 3, 7, 8 AND 9 -- NO USEABLE COVERAGE.

AREAS 4 AND 6 -- 15 PERCENT USEABLE COVERAGE.

AREA 5 -- 10 PERCENT USEABLE COVERAGE.

25X1

HOLGUIN MILITARY CAMP CU 2053N 07613W

OB @MAIN CAMP -- 4 TANKS/SP GUNS, 24 FA PIECES, 9 AAA PIECES, 56 CARGO TRUCKS, AND 54 OTHER VEHICLES OBSERVED IN CLOUD-FREE AREAS.

OB @CAMP 2.2 NM SE -- 18 PROBABLE FA PIECES, 16

PROBABLE CARGO TRUCKS, AND 11 OTHER VEHICLES.

NO APPARENT CHANGE IN FACILITIES.

25X1

HOLGUIN MILITARY CAMP NW CU 2057N 07616W

OB -- 2 PROBABLE TANKS/SP GUNS, 12 PROBABLE AAA PIECES, 15 PROBABLE CARGO TRUCKS, AND 1 OTHER VEHICLE.

NO APPARENT CHANGE IN FACILITIES.

25X1

BAJURAYABO MILITARY CAMP CU 2308N 08210W

OB -- 6 PROBABLE FA PIECES AND 13 PROBABLE CARGO TRUCKS.

NO APPARENT CHANGE IN FACILITIES.

25X1

CAMAGUEY MILITARY CAMP CU 2126N 07753W

OB -- NONE OBSERVED.

NO APPARENT CHANGE IN FACILITIES.

25X1

EL CAYO

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25X1

GUANAJAY MILITARY CAMP MARTIN MESA CU 2257N 08243W
OB -- 54 FA PIECES, 14 AAA PIECES, 14 MORTARS, 95 CARGO
TRUCKS, AND 13 OTHER VEHICLES.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

25X1

JURAGUA MILITARY ACTIVITY CU 2209N 08035W
OB -- 6 FA PIECES.
NO APPARENT CHANGE IN FACILITIES.

25X1

LA FLORA MILITARY CAMP CU 2252N 08233W
OB -- 37 PROBABLE BTR 60-P AND 35 OTHER VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

LA QUINTA MILITARY CAMP CU 2002N 07551W
OB -- 5 FA PIECES/MORTARS AND 13 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

25X1

LIMONAR MILITARY CAMP SE CU 2255N 08120W
OB -- 45 CARGO TRUCKS.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

25X1

LIMONAR TANK TRAINING AREA CU 2254N 08121W
OB -- 12 TANKS/SP GUNS AND 9 CARGO TRUCKS.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

25X1

LOMAS TETAS DE MANAGUA TANK PARK CU 2258N 08219W
OB -- AT LEAST 10 PROBABLE TANKS/SP GUNS.

25X1

MANAGUA MILITARY CAMP CU 2258N 08217W
OB -- 12 CANVAS-COVERED SA-2 MISSILE TRANSPORTERS AND
APPROXIMATELY 50 OTHER VEHICLES OBSERVED IN CLOUD-FREE
AREAS.
ACTIVITY -- 1 COLT AT ADJACENT LANDING STRIP.
NO APPARENT CHANGE IN FACILITIES.

25X1

PUERTO PADRE MILITARY AREA CU 2111N 07639W
OB -- 6 TANKS/SP GUNS, 6 FA PIECES, 4 MORTARS, 28 CARGO
TRUCKS, 2 VAN TRUCKS, AND 1 UTILITY TRUCK.
NO APPARENT CHANGE IN FACILITIES.

25X1

SAN JOSE DE LAS LAJAS MILITARY ACTIVITY CU 2258N 08212W
OB -- 47 VEHICLES OBSERVED IN CLOUD-FREE AREAS.

25X1

SANTIAGO DE CUBA MILITARY CAMP CU 2003N 07553W
OB -- 33 FA PIECES, 32 AAA PIECES, 10 MORTARS, 93 CARGO
TRUCKS, 3 VAN TRUCKS, AND 2 UTILITY TRUCKS.
ACTIVITY -- 1 OCCUPIED 3-GUN AAA SITE.
NO APPARENT CHANGE IN FACILITIES.

25X1

CIENFUEGOS MILITARY ACTIVITY CU 2209N 08027W
OB -- 14 FA PIECES AND 18 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

25X1

CONDADO PROBABLE MILITARY INSTALLATION CU 2152N 07951W
OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

25X1

25X1

MATANZAS LANDING BEACH CU 2301N 08126W
NO NEW MILITARY ACTIVITY OBSERVED.

25X1

CIENFUEGOS LANDING BEACH CU 2202N 08036W
NO NEW MILITARY ACTIVITY OBSERVED.

25X1

MOA @PUNTA GORDA LANDING BEACH CU 2039N 07453W
NO NEW MILITARY ACTIVITY OBSERVED.

25X1

MOA @CANANOVAN LANDING BEACH CU 2039N 07502W
NO NEW MILITARY ACTIVITY OBSERVED.

25X1

PENINSULA DE HICACOS LANDING BEACH CU 2311N 08130W
NO NEW MILITARY ACTIVITY OBSERVED IN CLOUD-FREE AREAS.

25X1

-STATUS OF OTHER TARGETS-

THE FOLLOWING TARGETS SHOW NO APPARENT CHANGE SINCE LAST COVERAGE--

HOLGUIN EW/GCI RADAR SITE 2048N 07618W

SANTIAGO DE CUBA EW/GCI RADAR SITE 1959N 07551W

RANCHO LUNA LOW SIEVE RADAR SITE 2202N 08025W

LA SOCAPA LOW SIEVE RADAR SITE 1958N 07552W

DOS CAMINOS MILITARY CAMP 2014N 07547W

SPECIAL AREA OREGON 2259N 08244W

MAR VERDE LANDING BEACH 1957N 07556W

NICARO LANDING BEACH 2042N 07533W

THE FOLLOWING TARGETS COULD BE IDENTIFIED BUT NOT INTERPRETED--

SANTIAGO SAM TRAINING AREA 1958N 07551W

CONSTANCIA SAM SITE A10-2 2214N 08030W

GUANABO CRUISE-MISSILE SITE 2309N 08203W

CAMPO LIBERTAD AIRFIELD 2305N 08226W

BAYAMO AIRFIELD EAST 2022N 07637W

BAYAMO AIRFIELD 2023N 07637W

BAHIA HONDA EW/GCI RADAR SITE 2258N 08311W

VARADERO LOW SIEVE RADAR SITE 2311N 08108W

ARTEMISA MILITARY CAMP 2250N 08248W

LA HABANA BARRACKS COJIMAR 2309N 08215W

REMEDIOS MILITARY AREA 2227N 07935W

SANTIAGO DE LAS VEGAS MILITARY CAMP 2258N 08220W

CAMPO FLORIDO MILITARY CAMP EAST 2307N 08206W

CUABITAS MILITARY CAMP 2003N 07548W

NAZARENO MILITARY CAMP 2257N 08213W

OFELIA MILITARY CAMP 2006N 07530W

SAN DIEGO DE NUNEZ MILITARY CAMP 2254N 08305W

SANTIAGO DE CUBA MILITARY CAMP NW 2003N 07554W

TARARA LANDING BEACH 2310N 08211W